(Continued from First Page.)

instead of warmth and comfort he tively clear, and we were able to study tains were in constant eruption, spout- fourteen miles to the hotel. the action of the tremendous forces at ing their thousands of tons of lava high work before and beneath us.

appeared to the writer to be an irregu. liancy. lar four-sided figure, with an approxisomewhat less than that. At the northern gap of the main crater there are what might popularly be called annexlarger one, and at the southern end an- ing a lull in the prevailing easterly other similar annex , the extent of wind the loud roar and the boom of the rendered by all the men under him. which could hardly be determined from fountains could be heard distinctly by our location. These annexes at the ex- all of our party. (Right here I must morning for Hilo, leaving Mr. Logan of treme ends of the main crater are very confess to a lack of appreciation of that the Bulletin there, suffering from a much less in depth than the larger one, acuteness of hearing of the Hilo gen"local condition only to be cured by announcement of the appoint demand for a good oil at a moderate price. scuthwesterly direction, the same as that of the longer axis of the central

We were encamped on the eastern side of the main crater, directly opposite and facing the western wall of Mokuaweoweo, which is the highest of all the inclosing precipices, and the top of which is the true summit of Mauna Loa, at an elevation of 13,675 feet above sea

### Heights and Distances

Heights and distances are always deceptive to the untrained eye at such elevations, and in extremely rarified air, but the western wall seemed to the writer to be not more than 650 or 700 feet high, judging from its appearance as compared with the 500-foot pali of Uekahuna, on the western wall of Ki-lauea. The eastern wall upon whose verge we stood is considerably less in height, and is broken into two distinct portions by an extensive plateau, or shelf, about 400 feet below the upper edge. This second shelf is several hundred feet in width, and extends along the whole southwestern side of the main crater, and around to the extreme south end of it, to the gap which connects with the southern annex. At the northern end, the first or lower terrace is very low, perhaps not more than forty or fifty feet above the main floor, and above that is another of considerable greater height, and then the main wall reaching to the summit. Along the western, southern and southeastern walls, there were no possible means of reaching the floor of the crater, as their upper portions, and nearly so all the way down.

At the northwestern end it appeared that there might be found a way of descent for a good climber to get to the pahoehoe floor at the bottom, but that would involve a very long and laborious detour over a rough trall several miles in length, and nene of our Mokuaweoweo from the Volcano House suggested pneumatic saddles for future points, as well as a detailed state the descent were possible for any one, the view obtained from the floor of the trater could not have been as satisfactory as that from the upper wall, as ones in different parts of the lake and one the visitor would have been below the level of the lava lake, and looking upward and across a vast extent of broken area. From an elevation of five whirlwinds starting in close proximity the reflection from the fire fountains or six hundred feet above the lake one to one of the large fountains and trav- of Mokuaweoweo are brighter than gets a birdseye view of the whole scene eling outwardly toward the circumfer- ever, and that there is every prospect and takes in the whole in one general outline, and is also saved the extreme hundreds of feet above the cliffs, and time longer. fatigue necessary to reach the lower

### Description of the Crater.

As we found Mokuaweoweo on the planation of the formation of Pele's 29th of April, the main floor of the hair, one of the forms of lava found at crater was a vast plain of smooth pa- great distances from its source. hochoe, probably not very old in formation, but the result of an overflow pre- to describe the coloring as we saw it vious to the present flow. Small jets of at this great exhibition, and I hope our steam were visible at long intervals, artist companion succeeded in his work but no great evidence of much heat upon the mountain. near the surface. The snow vanished before it reached this lower floor, which fact some of the party claimed as evidence that the pahoehoe was of very description, and but for the prevailing rising straight in the air. Soon after recent origin, but to my mind the meltfrom the active take and fountains.

and somewhat nearer the western than ing the ever changing scene. As it was, present eruption proceeds. Here again tried in vain to be comfortable. Some one must confess to an unwillingness were deathly sick and cared not for the and heights, under such conditions as rock which answered for bed and pilpresent eruption I have endeavored to the downward trip. We tried to sleep

1600 feet in a northerly and southerly of morning. a subject of doubt, as we were looking reached 22 deg., not very severe to one Alexander from his survey of 1885, the the party. center of the lake at the fountain must | The natives were all sick, and our have been about one mile from the best friend, Julian, had all the responpoint of view, or a little west of the sibility of caring for the twenty-five centre of the crater. This lake is at the suffering animals. The mule from Putop of a very flat cone, formed by its na, more bold than the others, chewed own overflows, and is constantly rising off his own rope and then wandered all just below the surface all about Halein the same way as the lake of Hale- over the camp, eating up such morsels maumau. The smoke and steam in the maumau, in Kilauea, did previous to its as bridles, halters and saddle girths, unbreakdown in March, 1891, and July, til securely tied up again.

Overflows from all sides of the lake extend hundreds of feet in every direction, and at all times during our stay, astir and preparations were made for and in that way from one-third to one- an early breakfast, as we had a fortyhalf of the old pahoehoe floor has al- mile ride to Ainapo and the Volcano ready been covered with new and fresh House, which we were to make before deposits of lava, which from our posi- sundown. The air was much clearer tion seemed to be of the sa variety. The than on the previous evening, and we largest flow at the time of our visit was had a fine view of Mauna Kea, with its in a southerly direction, and it prom- summit and upper slopes well covered ised to fill a vast pit at that end of the with snow, and all around and below us crater, which pit I think was left at the were dense banks of clouds which hung of the regular devotional meeting last time the last eruption ceased.

in his survey of 1874, and the smoking season, and our friends in Hilo and length, after which the whole matter, cone seen by Alexander in 1885, and lat- Kau had had their misgivings about including various motions and suger visitors in 1893.

Immense Lava Fountains. The crowning features of the present

fore, I would estimate the average the first time that Dr. Friedlander had mate length of about two miles from height of the spouting columns of lava made the ascent a few days before northeast to southwest, and a width at about 200 feet, but at intervals of a from the Kona side, and returned on introduced, and on vote his petibombs would reach half the height of the western wall, and then fall back ing but words of praise for the way the es, or small craters, connected with the into the seething lake. At times dur- expedition was conducted by Julian

the success of our undertaking.

The return was made much more rapidly than the ascent, as the animals two weeks. eruption are the two twin fire foun-needed no urging, and the trail was tains in the middle of the lake, and ap- much easier going down. A heavy rain found ice and snow to an unknown proximately 400 feet apart. Probably began soon after leaving the summit depth, and so he decided to try the hard no grander sight has ever been seen and for three or four hours we rode floor of lava in the tent, with the rest under such favorable conditions as we through it, reaching our first night's of the party. The storm had abated had a few nights ago, as we stood on camp about noontime, Alnapo at 2:30 somewhat during the time we were ar- the edge of Mokuaweoweo. At a dis- where we lunched and changed our ranging our camp, and by 5 p. m. the tance of about one mile, and only a few tired and hungry horses for the fresh whole of the great crater was compara- hundred feet below us, these two foun- ones to take us over the last stage of

At 6 p. m. of the third day we were in air, and lighting the whole crater, all comfortably settled at the Volcano The central portion of Mokuaweoweo and the heavens above, with their bril- House and congratulating ourselves on Using the same scale as be- our safe return. Here we learned for

The members of the party have noth-Monsarrat, and for the faithful service

We left the Volcano House the next

PLAGUE IN HONGKONG. Action of the Board of Health Meeting Wednesday.

The Board met at 3 p. m. and when the minutes were being read President Smith called attention to some correspondence received from Dr. Akana in relation to a charge of malpractice. The doctor asked that he be allowed to produce evidence to rebut that tion was granted and he will be heard at the next meeting.

A report from Dr. Stuart Eldredge, medical inspector at Yokohama, was read and favorably commented upon for its completeness of detail. It contained the

and extended in a northeasterly and tleman who heard the sullen roar of time." The member from Buffalo has ment by him of deputies at other West FLOOT Crale Summit

The above sketch map is from a survey made by Rev. J. M. Alexander, October, 1895, with additions in April, 1896, by Frank S

The inner figure L represents the present active lake in Mokuaweoweo, which is approximately 1000 x 1600 feet in area. It contains the two great lava fountains, in constant action, throwing up lava in a steady column at least two hundred and fifty feet in height. Surrounding this is the last great flow from the lake itself, now covering nearly a square mile of the old floor of

what remains of an old cone of 1885-90, the eastern part having been swallowed up in the sinking of the deep pit P (date they are all perpendicular cliffs in X shows the location of the exploring party three-quarter mile from the eastern summit, and right on the edge of the crater.

Directly opposite the camp, and above the lake, is the true summit of Mauna Loa-13,675 feet above the sea level, and about 750 feet higher than the lake. At either end of the main crater are the two elevated plateaus, connecting with the north and south annexes, each of which contains

The old floor of the main crater is of smooth pshoehoe, nearly level over the greater part of its area, but now being rapidly covered by the present overflow of aa and pahochoe from the new lake.

The walls of Mokuaweoweo are very precipitous on all sides, being highest on the west and east of the main crater, and lowest at the northern end, where a trail can be made over the two terraces or plateaus to the lower floor.

party cared to make the attempt. If at Kilauea, twenty-two miles away.) mountaineers.

ones in different parts of the lake, and enlarged its area and these, with the overflow at the outer great activity. edge, furnished a constantly changing Reports from the Volcano House, dat often lifting great slabs of the crust of lava high in the air and then casting them off. Here we may find a good ex-

It would take an artist's eye and pen

### Unsurpassed Grandeur.

The effect at night was grand beyond mountain sickness, the storm of sleet ing was caused by the heat radiating and snow, and other discomforts from which most of us suffered, we should At the southern end of the crater have spent the night out of doors viewthe eastern wall, was the great active we early sought the shelter of the tent lake of Mokuaweoweo, from which the and our heavy double blankets, and to make estimates of length, breadth cold, the storm nor the hardness of the are found in a crater of such vast ex- low, and longed only for the coming of tent. But in all my estimates of the the morning when we should start for be on the safe side, and not to overdraw through the night, eleven of us, packed in a small tent so closely that we could Taking the western wall at a height hardly turn over for a change; but while of 700 feet as a basis for all the others, some of us succeeded in getting a little I do not hesitate to put the length of rest, the others failed in the attempt, the lake of liquid fire at about 1400 or and were glad to welcome the first glow

direction, and its width at about two- The temperature had fallen to 25 deg. thirds of its length, but that is more soon after dark, and during the night it across the lake from east to west. With used to it, but with the mist and sleet the width of the main crater at one and and the driving east wind, it was an three-quarter miles, as given by J. M. uncomfortable night for the whole of

scene. Then there were occasional ed Sunday evening, May 3d, say that ence whirling straight columns of smoke of the eruption continuing for some

Monday noon four of the mountain party left Hilo on the chartered Hawaii such ports for Hawaii between to connect at Paauhau with the Like- July 1st and September 30th. He like, bound for Honolulu direct. At Hakalau we picked up two more passengers bound for the capital, and off the Hamakua coast we were transferred to at Yokohama with twelve Chi the Likelike and started at once, spent nese steerage passengers for Hothe night at Mahukona, loaded cattle at nolulu. Twenty-five Japanese Kawaihai in the early morning, and then sailed for home.

Our last view of the eruption was obtained from Kawaihae just before sun- found one of the crew suffering rise, when there was a faint glow over the summit and a thin column of smoke sunrise all signs of activity had disappeared in the haze which hung over pital. Before the steamer was althe whole of Hawaii, and as we sailed lowed to leave port he called in a toward Maui the island was lost to

Predictions as to what will happen on Mauna Loa, either in Mokuaweoweo or in Kilauea, are not to be safely indulged in, for the reason that no one knows enough of volcanic action to give him the necessary data.

For two full weeks the great crater has been more active than for many years past, and from the record of past eruptions we may perhaps expect an outbreak on the sides of Mauna Loa within a few weeks, or the fires may disappear altogether from the summit crater. Most of the great eruptions of the present century from the flanks of Manua Loa have been preceded by action in Mokuaweoweo, and from this fact I should not be greatly surprised at news of an outbreak along the great line of fissure on the northeastern side of the mountain, or at the opposite extremity, from which the 1887 flow proceeded towards Kau.

In Kilauea there has been no visible fire for several months, but a vast volume of smoke and gas is continually escaping, and there is considerable heat great pit, the rumbling noises heard in the neighborhood, and the many evidences of great heat, all point to the probability of an early return to a state of great activity in Kilauea.

The year 1896 promises to be an important one in the annals of Hawali as a great center of volcanic action. FRANK S. DODGE.

May 5th, 1896.

Central Union Hymn Books.

At a special business meeting of the Central Union Church, held at the close There was probably a liquid lake of lava on the location shown by Lydgate, had been the most severe one of the troduced and discussed at considerable

that the plague was epidemic in Hong Kong when the S. S. China left there, and that contagious diseases are epidemic in Asiatic ports during seasons of the year. passengers be allowed to leave reported, also, the arrival of the S. S. Chittigong from Hong Kong were added at Yokohama. On inspecting the vessel Dr. Eldredge from symptoms of the plague and ordered the vessel fumigated and the sick man removed to the hoscelebrated Japanese specialist to consult with him regarding the sick man, who seemed to be improving. The decision arrived at was that while the disease might not be the plague it closely resembled it, and as a precautionary measure he notified the captain that steerage pessengers would not be allowed to land at Honolulu on the direct voyage and that he would have to take them on to Portland and land them on the return voyage.

In connection with the communication from Dr. Eldredge, Dr. Day exhibited the bill of health of the China signed by the Hawaiian Consul at Hong Kong, in which no mention was made of existence of the plague, while the one signed by the United States Consul stated that sixty-one deaths had occurred the week prior to the departure of the China. It was evident the Hawaiian Consul was neglecting his busi-

Minister Smith said notification of his removal from the office had been forwarded by last

On motion of Dr. Wood it was resolved to notify steamship agents at infected Asiatic ports that steerage passengers will not be allawed to land at Honolulu

Adjourned.

# length, after which the whole matter, including various motions and suggestions that had been made, was referred to a special committee to report in two weeks. HIGH CRADE Lubricating Oils

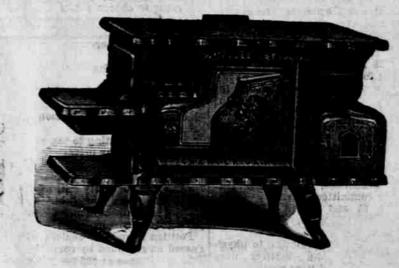


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